

# CRYSTIC PD 9635 UV

## Isophthalic Neopentyl Glycol polyester resin, with Photoinitiator

### Introduction

**CRYSTIC PD 9635 UV** is a Magnesium oxide thickenable, isophthalic neopentyl glycol, unsaturated polyester resin with photoinitiator.

### Application

**CRYSTIC PD 9635 UV** has been specially developed for UV curing systems and relining pipe repair industry.

### Features and Benefits

#### Features

High HDT  
High Molecular Weight  
High elongation  
Long term experience

#### Benefits

Excellent mechanical properties  
Excellent resistance to water ingress  
Excellent impact resistance  
Safety in use

### Formulation

This Resin contains a photoinitiator and can be cured under UV light exposure. For UV curing applications, a UV lamp of 400W Energy is recommend.

### Approvals

**CRYSTIC PD 9635 UV** is type 1140 according to German standard DIN 16946 Teil 2 and group 3 according to DIN 18820 Teil 1.

### Additives

Since certain pigments, fillers or extra styrene may affect properties of **CRYSTIC PD 9635 UV** their effect should be evaluated before addition to the formulation.

### Typical properties

#### On liquid resin

Viscosity @ 25°C Brookfield HBT MT -B/5Rpm	dPas	6 – 8
Specific Gravity		1.10
Acid Index	Mg KOH/g	8 – 12
Solid Content (1H @ 150°C)	%	54 – 56
Stability from date of manufacture when stored in accordance with storage recommendations.	Month	9

*On fully cured resin*

\*

Barcol Hardness (GYZJ 934-1)		45
Heat deflection temperature under load (1.8 MPa)	°C	104
Water absorption (24h @23°C)	Mg	16
Specific gravity at @ 20°C		1.16
Elongation at break	%	2.6
Tensile strength	MPa	58
Tensile modulus	MPa	3600
Flexural Strength	MPa	130
Flexural Modulus	MPa	3600

Test according to BS 2782 :1980

1MPa = 1MN/m<sup>2</sup> = 1N/mm<sup>2</sup> = 10,2 kgf/cm<sup>2</sup>

\* cured 24 h at 20°C then 3 h à 80°C except for the HDT where the schedule was 24 h at 20°C then 5 h at 80°C then 3h at 100°C.

### **Packaging**

**CRYSTIC PD 9635 UV** is supplied in 225 kg or 1100 kg containers. Bulk supplies can be delivered by road tanker.

### **Storage**

**CRYSTIC PD 9635 UV** should be stored in the dark between 5°C and 25°C in the original, unopened container in a dry well ventilated place. Protect from freezing and direct sunlight. Avoid contact with oxidising agents. If stored outside of these recommendations, shelf life will be significantly reduced

### **Health and security**

Please refer to the Safety data sheet

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